RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/009,431
Source: FFW16
Date Processed by STIC: 1-4-05

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IFW16

RAW SEQUENCE LISTING DATE: 01/04/2005
PATENT APPLICATION: US/10/009,431 TIME: 09:37:40

Input Set : A:\PTO.YF.txt
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<110> APPLICANT: Unsicker, Klaus.
Krieglstein, Kerstin.
<120> TITLE OF INVENTION: Neuroprotective properties of GDF-15, a novel member of the TGF-BETA superfamily
<130> FILE REFERENCE: MBP-007XX
<140> CURRENT APPLICATION NUMBER: US 10/009,431
<141> CURRENT FILING DATE: 2002-2-13
<150> PRIOR APPLICATION NUMBER: PCT/EP00/04445
<151> PRIOR FILING DATE: 2000-05-16
<150> PRIOR APPLICATION NUMBER: EP 99 109 714.8
<151> PRIOR FILING DATE: 1999-05-17
<160> NUMBER OF SEQ ID NOS: 7
<170> SOFTWARE: PatentIn Ver. 2.1
<210> SEQ ID NO: 1
<211> LENGTH: 888
<212> TYPE: DNA
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 1
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cgagagttgc ggaaacgcta cgaggacctg ctaaccaggc tgcgggccaa ccagagctgg 180
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cacacggtcc gcgcgtcgct ggaagacctg ggctgggccg attgggtgct gtcgccacgg 660
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cacgcgcaga tcaagacgag cctgcaccgc ctgaagcccg acacggtgcc agcgccctgc 780
tgcgtgcccg ccagctacaa tcccatggtg ctcttacaaa agaccgacac cggggtgtcg 840
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<210> SEQ ID NO: 2
<211> LENGTH: 339
<212> TYPE: DNA
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 2
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gtgaccatgt gcatcggcgc gtgcccgagc cagttccggg cggcaaacat gcacgcgcag 180
atcaagacga gcctgcaccg cctgaagccc gacacggtgc cagcgccctg ctgcgtgccc 240
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62 <210> SEQ ID NO: 3
63 <211> LENGTH: 295
64 <212> TYPE: PRT
65 <213> ORGANISM: Homo sapiens
67 <400> SEQUENCE: 3
68 Met Leu Leu Val Leu Leu Val Leu Ser Trp Leu Pro His Gly Gly Ala
69   1               5                  10                  15
71 Leu Ser Leu Ala Glu Ala Ser Arg Ala Ser Phe Pro Gly Pro Ser Glu
72              20                  25                  30
74 Leu His Thr Glu Asp Ser Arg Phe Arg Glu Leu Arg Lys Arg Tyr Glu
75          35                  40                  45
77 Asp Leu Leu Thr Arg Leu Arg Ala Asn Gln Ser Trp Glu Asp Ser Asn
78      50                  55                  60
80 Thr Asp Leu Val Pro Ala Pro Ala Val Arg Ile Leu Thr Pro Glu Val
81  65                  70                  75                  80
83 Arg Leu Gly Ser Gly Gly His Leu His Leu Arg Ile Ser Arg Ala Ala
84                  85                  90                  95
86 Leu Pro Glu Gly Leu Pro Glu Ala Ser Arg Leu His Arg Ala Leu Phe
87             100                 105                 110
89 Arg Leu Ser Pro Thr Ala Ser Arg Ser Trp Asp Val Thr Arg Pro Leu
90         115                 120                 125
92 Arg Arg Gln Leu Ser Leu Ala Arg Pro Gln Ala Pro Ala Leu His Leu
93     130                 135                 140
95 Arg Leu Ser Pro Pro Pro Ser Gln Ser Asp Gln Leu Leu Ala Glu Ser
96 145                 150                 155                 160
98 Ser Ser Ala Arg Pro Gln Leu Glu Leu His Leu Arg Pro Gln Ala Ala
99                 165                 170                 175
101 Arg Gly Arg Arg Arg Ala Arg Ala Arg Asn Gly Asp His Cys Pro Leu
102             180                 185                 190
104 Gly Pro Gly Arg Cys Cys Arg Leu His Thr Val Arg Ala Ser Leu Glu
105         195                 200                 205
107 Asp Leu Gly Trp Ala Asp Trp Val Leu Ser Pro Arg Glu Val Gln Val
108     210                 215                 220
110 Thr Met Cys Ile Gly Ala Cys Pro Ser Gln Phe Arg Ala Ala Asn Met
111 225                 230                 235                 240
113 His Ala Gln Ile Lys Thr Ser Leu His Arg Leu Lys Pro Asp Thr Val
114                 245                 250                 255
116 Pro Ala Pro Cys Cys Val Pro Ala Ser Tyr Asn Pro Met Val Leu Ile
117             260                 265                 270
119 Gln Lys Thr Asp Thr Gly Val Ser Leu Gln Thr Tyr Asp Asp Leu Leu
120         275                 280                 285
122 Ala Lys Asp Cys His Cys Ile
123     290                 295
127 <210> SEQ ID NO: 4
128 <211> LENGTH: 112
129 <212> TYPE: PRT
130 <213> ORGANISM: Homo sapiens
132 <400> SEQUENCE: 4
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PATENT APPLICATION: US/10/009,431 TIME: 09:37:40

Input Set : A:\PTO.YF.txt
Output Set: N:\CRF4\01042005\J009431.raw

```
133 Ala Arg Asn Gly Asp His Cys Pro Leu Gly Pro Gly Arg Cys Cys Arg
134   1               5                  10                  15
136 Leu His Thr Val Arg Ala Ser Leu Glu Asp Leu Gly Trp Ala Asp Trp
137              20                  25                  30
139 Val Leu Ser Pro Arg Glu Val Gln Val Thr Met Cys Ile Gly Ala Cys
140          35                  40                  45
142 Pro Ser Gln Phe Arg Ala Ala Asn Met His Ala Gln Ile Lys Thr Ser
143      50                  55                  60
145 Leu His Arg Leu Lys Pro Asp Thr Val Pro Ala Pro Cys Cys Val Pro
146  65                  70                  75                  80
148 Ala Ser Tyr Asn Pro Met Val Leu Ile Gln Lys Thr Asp Thr Gly Val
149                  85                  90                  95
151 Ser Leu Gln Thr Tyr Asp Asp Leu Leu Ala Lys Asp Cys His Cys Ile
152              100                 105                 110
159 <210> SEQ ID NO: 5
160 <211> LENGTH: 13
161 <212> TYPE: PRT
162 <213> ORGANISM: Homo sapiens
164 <400> SEQUENCE: 5
165 Met Pro Gly Gln Glu Leu Arg Thr Leu Asn Gly Ser Gln
166   1               5                  10
170 <210> SEQ ID NO: 6
171 <211> LENGTH: 15
172 <212> TYPE: PRT
173 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: Description of Artificial Sequence: Peptide
177       derived from the murine and rat C-terminal
178       sequence of GDF-15
180 <400> SEQUENCE: 6
181 His Arg Thr Asp Ser Gly Val Ser Leu Gln Thr Tyr Asp Asp Leu
182   1               5                  10                  15
186 <210> SEQ ID NO: 7
187 <211> LENGTH: 15
188 <212> TYPE: PRT
189 <213> ORGANISM: Homo sapiens
191 <220> FEATURE:
192 <221> NAME/KEY: PEPTIDE
193 <222> LOCATION: (1)..(15)
194 <223> OTHER INFORMATION: Peptide corresponds to amino acids 273 to 287 of
195       human pre-pro-mature GDF-15
197 <400> SEQUENCE: 7
198 Gln Lys Thr Asp Thr Gly Val Ser Leu Gln Thr Tyr Asp Asp Leu
199   1               5                  10                  15
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VERIFICATION SUMMARY DATE: 01/04/2005
PATENT APPLICATION: **US/10/009,431** TIME: 09:37:41

Input Set : **A:\PTO.YF.txt**
Output Set: **N:\CRF4\01042005\J009431.raw**

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